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**ROUTING AND RECORD SHEET****SUBJECT:** (Optional)

Carbon Monoxide Monitoring at the New Headquarters Building Site

**FROM:**

Chief Safety Division, OMS

**EXTENSION****NO.****DATE**

3 February 1986

**TO:** (Officer designation, room number, and building)**DATE****RECEIVED****FORWARDED****OFFICER'S  
INITIALS****COMMENTS** (Number each comment to show from whom to whom. Draw a line across column after each comment.)1. C/NBPO/OL  
1J-45 Hqs.

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3 FEB 1986

MEMORANDUM FOR: Chief, New Building Project Office, <sup>1</sup>  
Office of Logistics

STAT FROM:

Chief, Safety Division,  
Office of Medical Services

SUBJECT: Carbon Monoxide Monitoring at the New  
Headquarters Building Site

1. At your request, an industrial hygienist from the Occupational Health Branch, Safety Division, monitored for carbon monoxide (CO) on the ground floor of the new Headquarters building site. Carbon monoxide is generated by diesel cement trucks, propane space heaters, and welding equipment, which are operated inside plastic wall barriers during cement pouring projects. Draeger CO detector tubes and a recently calibrated Ecolyzer CO monitor were used to detect the levels of carbon monoxide.

2. The Ecolyzer CO monitor was placed on the ground floor inside the plastic wall barriers near a welding project. The monitor recorded measurements of 20-25 ppm CO (parts carbon monoxide per million parts of contaminated air, by volume). The Draeger tubes showed CO levels of less than 20 ppm. The current Occupational Safety and Health Administration's (OSHA) average Permissible Exposure limit for an eight hour day is 50 ppm of CO.

3. The CO levels found on 7 January 1986 are in compliance with the OSHA standard, but it is conceivable that these levels can exceed the standard if intensive work is conducted inside the plastic barriers with many space heaters in operation.

4. The Centex Safety Officer, Mr. Robert Knicely, was advised of the CO monitoring results and he has pledged to inform the Occupational Health Branch if new building site personnel have further concerns about carbon monoxide. It is requested that the New Building Project Office inform the Occupational Health Branch when the cement pouring is to be conducted on the South side of the site, so further CO monitoring can be conducted.

5. Should additional information be required please  
contact Safety Division, extension

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